

NFAC/CAR

NFAC # ~~4325-78~~

25 September 1978

MEMORANDUM FOR: Associate Director-Management, NFAC

STATINTL

FROM : [REDACTED]
Chief, Support Services Division
Office of Central Reference

SUBJECT : Request to Teach Course at Institution of Higher
Education

1. Pursuant to NFAC Notice 50-2 (dated 11 September 1978) I request approval to teach a data processing course at:

Northern Virginia Community College (NVCC)
8333 Little River Turnpike
Annandale, VA 22003

2. I am scheduled to teach the following course during the Fall 1978 quarter (beginning 27 September 1978):

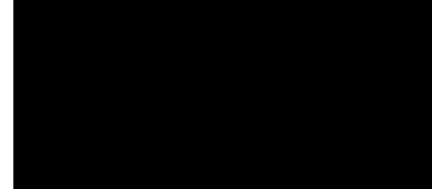
<u>Course No.</u>	<u>Course Title</u>
DAPR-269-02N	Computer Programming-370 Assembler Language

The course will meet on Tuesday and Thursday evenings 1900 to 2120. Data Processing courses are supervised by Mr. K. Swanson and fall within the curricula offered by the Business Division (chaired by Mr. William C. Hill).

3. I have been a part-time faculty member (with the title of Lecturer) with NVCC for several years, and have taught a variety of data processing courses during this time. An Outside Activity Request was approved for this activity several years ago.

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4. NVCC is aware of my association with CIA. Neither my lectures or class exercises refer or pertain to CIA activities, nor does my association with NVCC interfere with my Agency duties and responsibilities.

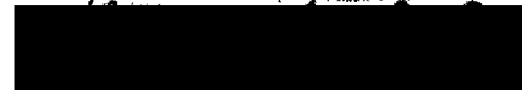


Attachment:
Course Outline and Syllabus

STATINTL

*I have reviewed this activity
and found it to be unclassified.*

STATINTL



Chief, Document Services Group

CONCUR:

STATINTL

Director of Central Reference

Date



Director of Security

2 OCT 1978

Date

STATINTL



Coordinator for Academic Relations

3 OCT 1978

Date

SUBJECT: Request to Teach Course at Institution of Higher Education

STATINTL

APPROVED:

[REDACTED]

8 OCT 1978

Associate Director-Management, NFAC

Date

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OCR/DSG/SSD/[REDACTED]/5663

STATINTL

27 SEP 1978

TO : All Students, DAPR-269-02N

SUBJECT: Course Outline

1. This course is intended to introduce the student to the IBM 360-370 Assembler Language. Upon completion of the course the student should be capable of designing, coding, executing, and debugging simple Assembler Language Programs using standard and decimal instructions. The student will also acquire an understanding of the hexadecimal structure of the IBM 360/370 system, machine language formats, assembler operand and field formats, and the manner of defining symbols and data to the computer.

2. The attached outline is intended to serve as a guide for the classroom events over the next eleven weeks. Neither the sequence of topics nor the dates scheduled are fixed, however, as certain course topics may be pursued to the extent necessary for proper coverage.

3. Textbook for the course is:

Overbeek and Singletary, *Assembler Language with ASSIST*,
Chicago: SRA: Inc., 1976

Supporting reference texts are:

IBM Systems OS/VS - DOS/VS - VM/370 Assembler Language (GC33-4010)
IBM System/370 Principles of Operation (GA22-7000)

The IBM 360 equivalent of either manual (IBM reference numbers GC28-6514 and GA22-6821 respectively) are also satisfactory. Copies of the reference texts will be placed on reserve in the campus library and be available in the remote terminal center. Home reading assignments are listed on the attached schedule. Additional assignments or problems will be assigned in the progress of the course.

4. There will be approximately three quizzes on material covered in class or reading assignments. There will be no mid-term exams although you will be graded on the writing of three programs that will

SUBJECT: Course Outline

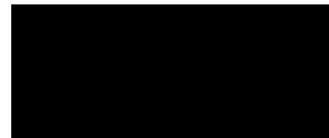
be required of you. Completed programming assignments will consist of a flow-chart, assembler listings (appropriately documented) and test results. Approximate weighting of assignments will be:

Quizzes	30%
Assigned programs	30%
Final exam*	30%
Class participation	10%

*Final exam will be "open book"

5. If you have any questions on your assignments you may call me after 6 p.m. on 323-0320.

STATINTL



(Instructor)

Attachment:
As stated

Approved For Release 2001/03/06 : CIA-RDP86B00985R000400050022-0

CLASS SYLLABUS

DAPR-269 - Computer Programming - (360/370 Assembler Language)

<u>DATE</u>	<u>LECTURE TOPICS</u>	<u>MNEMONICS</u>	<u>TEST READING ASSIGNMENT</u>
28 Sep	Administrative Procedures Overview of Course Outline and Text Review of 360/370 Characteristics Introduction to ALC		
3, 5 Oct	Number Systems Data representation and instruction formats		Review Chapter 1
10, 12 Oct	Overview of 360 Addressing Techniques Coding forms Program organization (Quiz #1: 12 Oct)	START CSECT END	Preview: 2.1 - 2.6 4.1 - 4.5
17, 19 Oct	Data movement, comparing and branching Relative addressing Length attributes Extended mnemonics	MVC/MVI CLC/CLI BC	Preview 6.2 Study Chapter 2 (esp. 2.7 - 2.12)
24, 26 Oct	Defining storage and constants Base and displacement addressing Explicit addressing I/O with ASSIST	DS DC BALR USING XREAD/XPRNT	Preview 4.1 - 4.3
31 Oct 2 Nov	Converting data forms Literals Fixed point arithmetic (addition, subtraction) Two's complement notation (Quiz #2: 31 Oct)	PACK/UNPK CVD/CVB ST/STH/L/LH/ STM/LM A/AH/AR LR	Study Chapter 3
7, 9 Nov	Fixed point arithmetic (multiplying & dividing) Algebraic comparison Abnormal Ending (ABEND) "ASSIST" Instructions (Program #1 Due: 9 Nov)	M/MH/MR D/DR/SRDA C/CH/CR MVZ	Study Chapter 4 Review Chapter 6

<u>DATE</u>	<u>LECTURE TOPICS</u>	<u>MNEMONICS</u>	<u>TEXT READING ASSIGNMENT</u>
14, 16 Nov	Looping and Indexing Packed decimal arithmetic	BXLE/BXH BCT LA ZAP/AP/SP	Study Chapter 7 (esp. 7.1 - 7.6)
21 Nov	Packed decimal arithmetic Indexing with SS instructions Table Look-ups	EQU MP/DP/CP CP	
23 Nov	THANKSGIVING HOLIDAY		
28, 30 Nov	Packed decimal arithmetic Shifting of decimal places Techniques of modular programming (Quiz #3: 28 Nov) (Program #2 Due: 30 Nov)	MVN MVO BAL/BALR	
5, 7 Dec	Program switches Shifts, algebraic + logical Logical Operations	IC/STC SLDA/SLA SLDL/SLL SRDA/SRA SRL/SRDL N/NI/NC/NR O/IO/OC/OR TM	Study Chapter 5
12 Dec	Editing Review (Program #3 Due: 12 Dec)	ED/EDMK	Review 7.7 - 7.8
14 Dec	FINAL EXAM		